

## EAST Search History

## EAST Search History (Prior Art) /DC/ - 5/4/2010

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	29533	(((\$4oxyethylene or \$4oxyalkylene or (ethylene adj oxide) or ethoxylated) with (((phosphate or sulfate) near2 ester) or sulfonate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/21 12:55
S2	5077	S1 and (styrene with (\$1ethyl\$4acrylate or alkyl\$4acrylate or \$1propyl\$4acrylate or \$4acrylate or \$4acrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:45
S3	62	S2 and ("ditallowdimethylammonium" or "ditallow dimethyl ammonium" or "ditallowdimethyl ammonium")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:29
S4	2	S3 and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:29
S5	147	S1 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:47
S6	147	S1 and ((ketene adj (dimer or multimer)) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:49
S7	58	S2 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:37
S8	3556	S2 and (sizing or coating)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:37
S9	2644	S2 and ((sizing or coating) with paper or sheet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:46
S10	52	S9 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:22

S11	51	S10 and (surfactant or ammonium or quaternary)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:46
S12	6585	(((\$4oxyethylene or \$4oxyalkylene or (ethylene adj oxide) or ethoxylated) near2 (((phosphate or sulfate) near2 ester) or sulfonate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 09:22
S13	688	(((\$4oxyethylene or \$4oxyalkylene or (ethylene adj oxide) or ethoxylated) adj (((phosphate or sulfate) near2 ester) or sulfonate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:45
S14	151	S13 and (styrene with (\$1ethyl\$4acrylate or alkyl\$4acrylate or \$1propyl\$4acrylate or \$4acrylate or \$4acrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:45
S15	83	S14 and ((sizing or coating) with paper or sheet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S16	48	S15 and (surfactant same (ammonium or quaternary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S17	1	S16 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:47
S18	1	S16 and ((lignin adj sulfonate) or (naphthalene adj condensate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:23
S19	45	S14 and ((sizing or coating) with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S20	20	S19 and (surfactant same (ammonium or quaternary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S21	298	emulsifier same ((alkyl adj sulfonate) with ((ethylene adj oxide) or ethoxylate\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 09:24

S22	62	S21 and (styrene and ((alkyl or methyl or ethyl or propyl) adj \$4acrylate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 09:25
S23	14	S22 and ((coating or sizing) with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:07
S24	4	((("6306255") or ("4228277") or ("4239592") or ("4687519")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 09:49
S25	62	(styrene adj acrylic adj ester) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:11
S26	801	(styrene with (methyl or ethyl or propyl) adj \$4acrylate) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:12
S27	801	(styrene with ((methyl or ethyl or propyl) adj \$4acrylate)) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:21
S28	217	(styrene near2 ((methyl or ethyl or propyl) adj \$4acrylate)) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:21
S29	160	S27 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:47
S30	92	S29 and surfactant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:28
S31	47	S29 and (surfactant same (ammonium or quatern\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:24
S32	0	S29 and ((lignin adj sulfonate) or (naphthalene adj condensate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:49
S33	1	("6306255").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 10:47

S34	8	((lignin adj sulfonate) or (naphthalene adj condensate)) and ((ketene adj (dimer or multimer)) or diketene) and (cationic adj surfactant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:54
S35	21	((lignin adj sulfonate) or (naphthalene adj condensate)) and ((ketene adj (dimer or multimer)) or diketene) and (cationic with surfactant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:54
S36	1	("4051093").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 15:44
S37	1	("20040206274").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 15:45
S38	3383	(106/164.4,287.2-287.3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/08 16:02
S39	544	(162/135/158/168.1,184,185).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/08 16:11
S40	1572	(106/164.4,287.2,287.24).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/08 16:04
S41	6	("4214948"   "4529447"   "5498648"   "5969011"   "6162328"   "6426381").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 11:37
S42	2	((("20020100567") or ("20030019599")).PN.	US-PGPUB; USPAT	OR	OFF	2007/02/08 16:11
S43	3	((("4228247") or ("4239592") or ("4687519")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/21 11:37
S44	32	((ketene adj dimer) or AKD) and ((oxyalkylene same sulfate\$1) or (oxyalkylene near5 phosphate\$1) or ((alkyl adj sulfate) same ethoxylate\$1) or ((alkyl adj sulfate) same (ethylene adj oxide)) or ((alkyl adj phosphate) same ethoxylate\$1) or ((alkyl adj phosphate) same (ethylene adj oxide)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/21 13:18
S45	2	wo-9731152-\$.did.	EPO; DERWENT	OR	ON	2007/08/21 13:20
S46	1	1997-435197.NRAN.	DERWENT	OR	ON	2007/08/21 13:19
S47	5	"6284099"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 13:20
S48	11	(sizing adj (dispersion composition emulsion)) and papermaking and (AKD (ketene adj dimer) (ketene adj multimer)) and (non\$1reactive adj siz\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:33

S49	4	(sizing adj (dispersion composition emulsion)) and papermaking and (AKD (ketene adj dimer) (ketene adj multimer)) and (((phosphate sulfate) near2 ester) same (polyoxyethylene (ethylene adj oxide)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:34
S50	35	(AKD (ketene adj dimer) (ketene adj multimer)) and (((phosphate sulfate) near2 ester) with (polyoxyethylene (ethylene adj oxide)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:34
S51	1	wo-02090653-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:35
S52	3	((("6692560") or ("4529447") or ("4810301")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/09 17:35
S53	330	(AKD (alk\$2yl adj ketene) (ketene adj dimer)) same3 ((acrylic vinyl (ethylenically adj unsaturated)) near3 \$2polymer\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:10
S54	219	S53 and (styrene with (acrylate acrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:10
S55	54	S53 and ((phosphate (phosphoric adj acid)) near3 ester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:11
S56	46	S54 and S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:11
S57	3	((("6162328") or ("6210475") or ("20060254736")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/08 16:19
S58	2228	(phosphate adj ester) with (surfactant emulsifier) with (ethoxylated polyoxyethylene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/09 15:00
S59	33	S58 and ((alkyl adj ketene) diketene AKD)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/09 15:00
S60	20	S59 and (sizing sized)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/09 15:02

S61	1297	((((ketene adj dimer) diketene) (alk\$2yl adj succinic adj anhydride)) and ((non \$1cellulose adj reactive) (cellulose non \$1reactive)) and styrene and (acrylate methacrylate (ester near3 acrylic) (ester near3 methacrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S62	23	((((ketene adj dimer) diketene) (alk\$2yl adj succinic adj anhydride)) and (((non \$1cellulose adj reactive) (cellulose adj non \$1reactive)) with (size sizing)) and styrene and (acrylate methacrylate (ester near3 acrylic) (ester near3 methacrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S63	163	S61 and "162"/\$.cls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S64	173	S62 S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S65	25	S64 and ((phosphate phosphoric) near3 ester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:57
S66	50	(Rhodafac with ("RS-710" RS710))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:57
S67	3	S64 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:57
S68	3	("4051093").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/08/05 13:18
S69	3	((("6576049") or ("4051093") or ("6306255")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/05 15:32
S70	4	((("6162328") or ("6315824") or ("6183550") or ("20040221976")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/04 12:27
S71	4	S70 and (surfactant dispersant dispersing emulsifier emulsifying)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/05/04 12:28

**EAST Search History (Interference)**

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